## PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file refer	ence					
253 64-10		FOR FURTHER AC	TION	See Form PCT/IPEA/416		
International application No.	Ir	nternational filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US04/21880		9 July 2004 (09.07.200	4)	12 July 2003 (12.07.2003)		
International Patent Classificati	on (IPC) or n	ational classification an	d IPC			
IPC(7): B01D 5/00 and US Cl.:	210/96.1					
Applicant						
WPSI, INC.						
Examining Author	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT co	nsists of a to	otal of <u>5</u> sheets, incl	luding this cover sheet	•		
3. This report is also	accompanie	ed by ANNEXES, co	mprising:			
a. (sent to the	applicant a	and to the Internation	al Bureau) a total of _	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b (sent to the	Internation	al Bureau only) a tot	al of (indicate type and	d number of electronic carrier(s))		
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I						
Box No. II Priority						
Box No. III Non-establishment of opin applicability			ion with regard to nove	elty, inventive step and industrial		
Box No. IV	Lack o	of unity of invention				
Box No. V	-					
Box No. VI		n documents cited	•	3		
Box No. VI	I Certaii	n defects in the interr	national application			
Box No. VI		n observations on the	international applicat	ion		
Date of submission of the demand			Date of completion of	of this report		
04 February 2005 (04.02.2005)		06 July <sub>1</sub> 2005 (06.07.20	05) (			
Name and mailing address of the Mail Stop PCT, Attn: IPE	Name and mailing address of the IPEA/ US					
Commissioner for Patents		1 tent	1			
P.O. Box 1450 Alexandria, Virginia 22313-1450			Peter A. Hruskoci	$V_{\mathcal{M}}$		
Facsimile No. (703) 305-3230 Telephone No. 571-272-0987						
form PCT/IPEA/409 (cover sheet)(January 2004)						

nternational	application	on No.
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PCT/US04/21880

B	OI N	No. I Basis of the report					
1	. Wit	ith regard to the language, this report is based on the international application in the language in which less otherwise indicated under this item.	it was filed,				
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	,				
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):						
	$\boxtimes$	the international application as originally filed/furnished					
	$\boxtimes$	the description:					
İ		pages 1-20 as originally filed/furnished					
		pages* received by this Authority on pages* received by this Authority on					
	$\bowtie$						
		pages 21-23 as originally filed/furnished					
		pages* as amended (together with any statement) under Article 19 pages* received by this Authority on					
		pages* received by this Authority on					
	$\boxtimes$	1					
		the drawings:  pages 1-6 as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
	$\Box$						
	لـــا	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
	-	any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Ru	been made, le 70.2(c)).				
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):	j				
		any table(s) related to the sequence listing (specify):					
		4 applies, some or all of those sheets may be marked "superseded."					
	DOTA	/IDEA // 0.0 (Part No. 1) (Inc., 200.4)	ŀ				

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Form PCT/IFEA/409 (Box No. V) (January 2004)

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Box No. V Reasoned statement under Ar applicability; citations and ex	ticle 35(2) with planations sup	regard to novelty, inventive porting such statement	e step or industrial
1. Statement			
Novelty (N)	Claims	1-24	YES
	Claims	NONE	NO
Inventive Step (IS)	Claims	1-24	YES
	Claims		3.7.0
Industrial Applicability (IA)	Claima	1.04	, ma
moustrial Applicating (IA)	Claims Claims		YES NO
2. Citations and Explanations (Rule 70.7)			
Claims 1-24 meet the criteria set out in PCT Article multi-phase separation system recited in the instant	33(2)-(3), because claims.	se the prior art does not teach or f	airly suggest the structure of the
Claims 1-24 meet the criteria set out in PCT Article be rnade or used in industry to remove contaminants	33(4), and thus h	ave industrial applicability becau	se the subject matter claimed can
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## B ox No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The description is objected to as containing the following defects under PCT Rule 66.2(a)(iii) in the form or contents thereof: In the description on page 10 lines 6 and 7 "204 partially shown in Fig. 2", in lines 23 and 24 "The construction...Fig. 3", and in line 30 "in a second set of tubes", on page 11 lines 11 and 12 "carrier air 218...coil arrangement 216", and on page 18 lines 6-8 "contaminated gas phase 206...coil arrangement 216" appear to be erroneous.

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#### BOINO. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-24 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims are indefinite for the following reason(s): In claims 1, 14, and 22 "low energy, high vacuum environment" is vague and indefinite because it is unclear how this term further limits the claims. In claim 7 "said carrier air exiting from said condenser module", and in claim 20 "second carbon stage polisher", and "said liquid discharge monitoring module" lack clear antecedent basis. Claim 13 should be separated from claim 12. Claim 13 is considered incomplete because it is essential to the instant system that the micron filtration bank module receive filtered contaminated fluid from said pre-filtering module and block or filter particles from said filtered contaminated fluid. In claim 24 "centrifu gal" should be changed to - centrifugal -. Claims 2-6, 8-12, 15-19, 21, and 23 depend from the above claims.

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